

Controlled quantum interference of Mössbauer radiation in resonant scattering

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Abstract

Previously, our group described a quantum-interference effect ("valve effect") to be expected in the resonant scattering of Mössbauer photons in the NMR mode. In the present study, it is shown that similar effects also occur in resonant-scattering spectra at the point of anticrossing of nuclear sublevels. Dynamical level anticrossing is also examined in this context. © Nauka/Interperiodica 2006.

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